

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/054935 A3

(51) International Patent Classification⁷: **G02F 1/1335**,
G09F 9/305, G02B 6/06, G02F 1/1333

(21) International Application Number:
PCT/GB2004/004496

(22) International Filing Date: 22 October 2004 (22.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0328163.1 4 December 2003 (04.12.2003) GB

(71) Applicant (for all designated States except US): **SCREEN TECHNOLOGY LIMITED** [GB/GB]; Unit D1, Button End, Harston, Cambridge CB2 5NX (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GALLEN, Niall, Anthony** [IE/GB]; 15 Blinco Grove, Cambridge CB1 7TP (GB). **LOWE, Anthony, Cyril** [GB/GB]; Orchard Rise, The Square, Braishfield, Hampshire SO51 0PQ (GB). **BAYLEY, Paul, Andrew** [GB/GB]; 65 Broomy Hill, Hereford HR4 0LJ (GB). **SMARTT, Nicholas, Patrick** [GB/GB]; 104 Argyle Street, Cambridge CB1 3LS (GB). **GARBUTT, Benjamin, David** [GB/GB]; Tudor Cottage, Minsterworth, Gloucestershire GL2 8JP (GB).

(74) Agent: **D YOUNG & CO**; 120 Holborn, London EC1N 2DY (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
18 August 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A DISPLAY WITH FRAMES FOR CONNECTING IMAGE GUIDE AND DISPLAY PANEL AND SEVERAL IMAGE GUIDES TO EACH OTHER AND TO A BASE, WITH A BACKLIGHT INCLUDING LIGHT REDIRECTING MEANS AND A SPECIAL SPECTRAL CHARACTERISTIC, WITH POLARISERS, AND WITH A CONTROL MECHANISM FOR A TILED DISPLAY

(57) Abstract: A display comprises a display device having an image output surface at which an image is displayed as a spaced array of pixel elements, a light transmitting element in the form of an image guide having a viewing surface, the light transmitting element arranged to receive light from the display device and display the received light on the viewing surface, the light transmitting element having a polarising layer arranged in an optical path between the display device and the viewing surface, wherein the polarising layer is arranged to attenuate unpolarised ambient light received from outside the display while substantially transmitting polarised light received from the display device.



WO 2005/054935 A3